PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		eation of Transmittal of International y Examination Report (Form PCT/IPEA/416)						
1142WOORD01	International filing date (day/month/year)	Priority date (day/month/year)						
International application No. PCT/EP 03/12787	15.11.2003	19.11.2002						
International Patent Classification (IPC) or b	ooth national classification and IPC							
C07D471/04		EINGANG/RECEIVED						
		0 9. März 2005						
Applicant		Geworbl. Rochtsschutz/						
ALTANA PHARMA AG et ai.		Intollectual Property ALTANA Pharma AG						
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total	of 5 sheets, including this cover sheet.							
been amended and are the (see Rule 70.16 and Section								
These annexes consist of a total	or sneets.							
IV	opinion with regard to novelty, inventive st tion under Rule 66.2(a)(ii) with regard to novelt tions supporting such statement ted international application on the international application	y, inventive step or industrial applicability;						
Date of submission of the demand	Date of completion	of this report						
21.05.2004	08.03.2005							
Name and mailing address of the internation preliminary examining authority:	nal Authorized Officer	alludius Primuses.						
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5236 Fax: +49 89 2399 - 4465	Schmid, A Telephone No. +49	9 89 2399-8591						

I. Basis of the report

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages						
	1-27	,	as originally filed				
	Clai	ims, Numbers					
1-10			as originally filed				
2.	With lang	h regard to the language , all the elements marked above were available or furnished to this Authority in the guage in which the international application was filed, unless otherwise indicated under this item.					
	The	hese elements were available or furnished to this Authority in the following language: , which is:					
	☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).						
☐ the language of publication of the international application (under Rule 48.3(b)).							
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).				
3.	With	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
		contained in the inter	mational application in written form.				
		filed together with the	e international application in computer readable form.				
		furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
The statement that the information recorded in computer readable form is identical to the written s listing has been furnished.							
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been been considered to	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement streport.)	neet containing such amendments must be referred to under item 1 and annexed to this				

6. Additional observations, if necessary:

111.	Nor	n-establishment of opinion wi	th reg	ard to nove	ty, inventive step and industrial applicability			
1.		he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- bvious), or to be industrially applicable have not been examined in respect of:						
	☐ the entire international application,							
	\boxtimes	☑ claims Nos. 10						
because:								
	the said international application, or the said claims Nos. 10 relate to the following subject matter which does not require an international preliminary examination (specify):							
see separate sheet								
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):							
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.							
	no international search report has been established for the said claims Nos.							
2.	or a	n meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative instructions:						
☐ the written form has not been furnished or does not comply with the Standard.								
		the computer readable form ha	as not l	been furnish	ed or does not comply with the Standard.			
٧.		easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; tations and explanations supporting such statement						
1.	Stat	ement						
	Nov	elty (N)	Yes: No:	Claims Claims	1-10			
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-10			

1-9

Yes: Claims Claims

No:

2. Citations and explanations

Industrial applicability (IA)

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1) Claims 10 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1) The closest prior art represented by D1 to D3 discloses compounds similar to the present ones which have been excluded by the applicant in the present application (cf. various provisos).
 - Accordingly the present subject-matter is novel pursuant to Article 54(1)(2) EPC.
- 2) D1 to D3 also concern the treatment of gastric and intestinal diseases. The compounds disclosed there exhibit an excellent activity as regards the lowering of the acid secretion (cf. D1, pages 35 and 26, D2, page 22, table 2, D3, pages 24 and 25).

Accordingly a skilled person looking for alternative compounds would surely try to vary the already known structure in order to new compounds having the same effect. As argued by the applicant (cf. present page 20, 3rd paragraph) the present compounds are superior to the compounds of the prior art. However, no comparison tests have been put forward in order to prove this allegation.

Therefore, without a clear proof compared to structurally closest compounds (cf. decision of the Board of Appeal T181/82) no inventive step can be acknowledged with regard to Article 56 EPC.

INTERNATIONAL PRELIMINARY International application No. PCT/EP 03/12787 EXAMINATION REPORT - SEPARATE SHEET

3) For the assessment of the present claim 10 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.